

SWEET BRIAR COLLEGE



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BULLETIN OF
SWEET BRIAR COLLEGE



THE VIRGINIA CONSERVATION GUIDE

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BULLETIN OF
SWEET BRIAR COLLEGE



THE VIRGINIA CONSERVATION GUIDE

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SWEET BRIAR COLLEGE

Sweet Briar, Virginia

May, 1940

Compiled for the
Virginia Conservation Council as a Library Project

FOREWORD

In the spring of 1940 representatives of sixteen organizations formed the Virginia Conservation Council. Its stated object is to promote public support of a conservation program to the end that the natural resources of Virginia and the beauty of its landscape may be preserved and increased for present and future generations.

Deeply interested in conservation, I felt keenly the need for more accurate information concerning its problems, and turned to the Mary Helen Cochran Library of Sweet Briar College, to find myself somewhat bewildered by the complex phases of the subject and the numerous agencies active in the field. However, Miss Doris Lomer, Librarian, and Miss Jeanette Boone, Superintendent of the Carry Nature Sanctuary, came to my rescue with many helpful suggestions. Miss Pauline Lowe, Assistant Librarian, consented to compile a selective bibliography of material available on various aspects of conservation. I hoped to mimeograph this and pass it on to member organizations for use by clubs in preparing their programs, as it occurred to me that others might welcome similar guidance through the literature in the field.

This modest plan developed into the present form when Sweet Briar College made possible its publication as a library project. Sweet Briar has always been interested in conservation. The College farm was one of the first in the County to practice strip cropping for the prevention of soil erosion. The three thousand acre campus has been kept a refuge for wildlife since the very founding of the College, and for years Sweet Briar has been a State Game Sanctuary. In 1936 the Carry Nature Sanctuary was established, and much active work has been done since that time in the cultivation of bird life.

The Virginia Conservation Guide is a cooperative enterprise, and we are very grateful for the aid given in its preparation. Officials of State and Federal conservation agencies, officers of the Virginia Conservation Council, as well as many others, made valuable suggestions and loaned material. Faculty and staff members of Sweet Briar College assisted in numerous ways. We also feel greatly indebted to the Hon. A. Willis Robertson for his interest and for his willingness to participate in the project, to Miss Pauline Lowe who gave so generously of her time in compiling and annotating the bibliography, and especially to Sweet Briar College for making its publication possible.

I hope that this bibliography may be of assistance to those who, like myself, are interested, but need a key to unlock some of the vast treasure of material available on conservation.

BERTHA P. WAILES,
President, Virginia Conservation Council.

Sweet Briar College
Sweet Briar, Virginia

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VIRGINIA'S CONSERVATION NEEDS

BY REPRESENTATIVE A. WILLIS ROBERTSON, CHAIRMAN,
SELECT COMMITTEE ON CONSERVATION OF WILDLIFE RESOURCES,
U. S. HOUSE OF REPRESENTATIVES

Recently the Secretary of the Interior stated that during the past seven years more progress had been made in the conservation of our renewable natural resources than in any similar period in the history of the Nation. That conservation program has either directly or indirectly affected everyone in the United States. Those directly affected include fifteen or more million who hunt and fish, thousands of farmers who are dependent upon irrigation, thousands who are dependent for a livelihood on our fur resources, about two million dependent for a livelihood upon our timber resources, a big percentage of those dependent for a livelihood upon our tourist business, and the residents of many cities and towns whose domestic water supply has been injured by pollution.

It was, therefore, with a feeling of genuine pleasure and satisfaction that I learned of the movement to organize in Virginia the Virginia Conservation Council to coordinate and implement the work of about sixteen State organizations whose activities touch in one way or another the conservation field.

There is no state in the Union more richly blessed in natural advantages than the Old Dominion. We have the mountains and the seashore; semi-tropical fauna and flora in the Dismal Swamp area; wild flowers and birds of a far northern type in the mountains of Highland County. Our Shenandoah National Park attracts each year more visitors than any other park in the country and that Park will, in the course of two more years, be connected with the Smoky Mountain National Park by a four hundred and fifty mile mountaintop highway which is unique in the world.

Virginia, once the home of such big game animals as the buffalo and elk, still has a few elk in Giles County, and deer in considerable numbers in certain mountain sections as well as in many Piedmont and Tidewater counties. The wild turkey is well distributed over the State, and the ruffed grouse, once apparently limited to the areas of the Blue Ridge and to the west of the mountains, is now being found in Buckingham and other eastern Virginia counties. Small game, such as quail, rabbits and squirrels, is distributed throughout the State. As Chairman of the Virginia Commission of Game and Inland Fish-

eries for seven years, and as Chairman of the House Select Committee on Wildlife Conservation for five years, I have had an opportunity to become acquainted with the game resources of other States, and without undue boasting, to which we Virginians are sometimes given, I can truthfully say that I know of no State of comparable size which possesses better natural advantages for the propagation of desirable game species than Virginia. In addition to favorable conditions for upland game, we are richly blessed in feeding and resting areas for migratory birds, especially ducks and geese. Back Bay is one of the most famous duck shooting areas on the Atlantic Coast, and the James, York, Rappahannock and Chickahominy Rivers and the adjoining marshes furnish a great area for migratory birds of all kinds. In the vicinity of the Virginia Capes we have splendid salt water fishing, including the drum and blue fish. In the rivers and ponds of Tidewater there is an abundance of large-mouth bass, perch, pike and other warm water fishes. West of the Blue Ridge there are approximately 2,000 miles of waters suitable for small-mouth bass and 1,000 miles suitable for trout.

The United States Forest Service and the State Forest Service have organized fire control work for the protection of practically all of the publicly and privately owned timber land of the State. The million, three hundred thousand acres of National Forests in Virginia embraced in the George Washington and Jefferson National Forests exceed the area owned by the Federal Government in any of the eastern States to the north of us, and to the south of us this area is rivaled only by North Carolina. Through a wise pay-as-you-go highway construction program, supplemented by liberal Federal grants-in-aid, Virginia has developed a highway system that makes all of these natural advantages readily accessible to the tourist, to the nature lover, and to the hunter and fisherman.

Many in Virginia have been slow to grasp the significance of these natural advantages. We have permitted some of our finest streams, such as the James River, to be ruined for recreational purposes by pollution, and pollution has ruined some of the finest oyster beds on the Atlantic Coast. We have permitted large timber areas to be destroyed by fire. We have permitted unsightly billboards and other roadside advertising to mar the beauty of our scenery. For many years we permitted game fish to be taken from our streams with nets and other mass destruction devices, and open hunting seasons and bag limits have frequently been fixed without due regard to the perpetuation of

an adequate supply of game birds and animals. Even in my recollection the deer were hunted with hounds in some of our mountain counties until the last deer was either destroyed or driven out. No adequate course of instruction on wildlife conservation was provided in our public schools, no organizations were engaged in studying our conservation problems, and all too frequently groups of sportsmen who called themselves game protective associations were more actively concerned with securing liberal open seasons and liberal bag limits than in the protection of the fish and game in which they were so deeply interested. As a result we have seen states like Pennsylvania and West Virginia, operating under conditions less favorable than Virginia, forge ahead of us in their conservation work.

As I have said, we have in Virginia the mountains and the seashore; we have parks, State and National; we have splendid opportunities for hunting and fishing, and we have many points of historic interest to the entire nation. For the citizens of the State, the preservation of the beauties of nature and a keener appreciation of them will contribute to a richer, fuller life.

I rejoice over the fact that a number of splendid groups have become aware of the value to the State of our renewable natural resources and have decided to organize for their conservation and future development.

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INTRODUCTION

This Bulletin pretends to be no more than its title suggests—a guide to some of the material on conservation which relates especially to Virginia, compiled from the standpoint of the groups which compose the Virginia Conservation Council. A complete listing of the vast amount of material available on this subject would be not only impractical, but also impossible in a bulletin of this size. Instead, emphasis has been placed on the aspects of conservation which directly affect all of us, and the readable and easily available material has been indicated. For those interested in more intensive study of a particular phase, the bibliographies will suggest additional books and bulletins.

In addition to a listing of printed material, a separate list of Government departments and agencies, and lay organizations, interested in the subject of conservation and able to offer help to the amateur conservationist, has been included. A great deal of material is distributed free by these groups to those who express a legitimate interest in the field in which they are working. There is also a list of periodicals primarily concerned with conservation, offered as a substitute for a complete listing of important articles which have appeared in these and other magazines. To supplement these publications the use of films is recommended. Those distributed by the United States Film Service can be borrowed by paying only the transportation costs, and many others rent for nominal sums. These will prove one of the easiest means by which the lay person, whether child or adult, may be interested in this important subject.

If material is being ordered from this bibliography, books should be purchased through a local book store. Booklets listed as published by special associations should be ordered direct. Government bulletins published by the United States Printing Office, for which a price is given, should be ordered from the Superintendent of Documents, Washington, D. C., enclosing money order, not stamps. Bulletins issued by the departments may usually be ordered direct, though there is frequently a limitation on the number which will be distributed free.

This Bulletin is presented with the hope that the material listed here will provide a fund of information on conservation that will make each one who uses it more able to support and fulfill the aims of the Virginia Conservation Council.

PUBLICATIONS

BIBLIOGRAPHIES

These are only a few of the many lists of books and bulletins available on the subjects touched in this *Guide*. Many of the publications listed elsewhere in the Bulletin contain lists of material for further study.

ANNOTATED LIST AND INDEX OF LEAFLETS BS-1 to BS-100 U. S.
Department of Agriculture Bureau of Biological Survey Wild-
life research and management leaflet BS-100 1938

An annotated guide to the publications of the Biological Survey.

BIBLIOGRAPHY ON SOIL EROSION AND SOIL AND WATER CONSERVATION
Stanley H. Gaines U. S. Department of Agriculture Miscel-
laneous Publication No. 312 U. S. Government Printing Office
1938 60 cents

There are 4,388 books, pamphlets, bulletins, reports, periodical articles, etc., listed, with brief abstracts to describe their contents.

CONSERVATION GUIDE Garden Club of America Conservation
Committee n.d. 50 cents

A useful and attractive guide to the material on conservation, discussed under the headings of Education, Planning, and Preservation. Many suggestions for programs and other community activities are offered.

CONSERVING OUR NATURAL RESOURCES: A selected list of material
useful to students and discussion clubs American Association for
the Advancement of Science with the cooperation of Enoch Pratt Free
Library of Baltimore 1937 Free

Available from the Association, Smithsonian Institution Building, Washington, D. C.

LAND USE AND SOIL CONSERVATION Informational material avail-
able to the public from the U. S. Department of Agriculture, Soil
Conservation Service, Washington, D. C. 1940

THE PUBLIC DOMAIN Government publications concerning public
lands, conservation, National Resources Planning Board Price list
20, 31st edition U. S. Government Printing Office 1939

A list of publications on the above subjects which are for sale by the Supt. of Documents.

PUBLICATIONS ON PLANNING FOR SOIL, WATER, AND WILDLIFE
CONSERVATION, FLOOD CONTROL, AND LAND UTILIZATION Etta
G. Rogers and Zelma McIlvain U. S. Department of Agriculture
Soil Conservation Service 1939 (Mimeographed pamphlet)

CONSERVATION: BACKGROUND READING

Books and bulletins included here give the background of the conservation problem and tell of the steps which the Nation as a whole is taking to face it. There is also material on the South which emphasizes the particular questions confronting Southerners, and portrays the situation in Virginia in relation to the entire United States.

The large topographic map of Virginia and the separate county maps, which may be purchased from the Geological Survey of the Virginia Conservation Commission, will be useful in making a study of state and local conditions.

AMERICA BEGINS AGAIN Katherine Glover McGraw 1939
\$3.75

"Miss Glover's copiously illustrated book goes over again the unhappy record—the scalping of the prairies, the slaughter of the forests, the extinction of wild life, the denuding of watersheds—and tells of what is being done and what must be done to salvage the remnant of our heritage and even win back some of our lost national wealth. There are laudatory chapters on the TVA and the Columbia river projects." *Christian Century*.

CONSERVATION OF NATURAL RESOURCES IN THE UNITED STATES
C. R. Van Hise Rev. ed., edited by Loomis Havemeyer Mac-
millan 1930 \$4.00

"This revision of the first authoritative book in the field is written by experts on the subjects of minerals, waters, forests, lands and wild life. Loomis Havemeyer, editor, adds a chapter on Conservation and Mankind in which he points out the complexity of the problem." *American Association for the Advancement of Science*.

HUMAN GEOGRAPHY OF THE SOUTH Rupert B. Vance Univer-
sity of North Carolina Press 1932 \$4.00

"Describes the soil, topography, climate, and historical background of the South as well as the diet and the diseases peculiar to this region and the relation of all these factors to human life in the South." *American Historical Review*.

OUR NATURAL RESOURCES AND THEIR CONSERVATION A. E. Par-
kins and J. R. Whitaker, editors Wiley 1936 \$5.00

"A symposium written by scientists, each of whom has for many years worked and thought in the field of which he writes. An excellent book for a general survey of the conservation program." *American Association for the Advancement of Science*.

PROBLEMS OF CONSERVATION American Nature Association
Quarterly Bulletin Vol. 1, no. 1 April, 1938 25 cents

"A statement of fundamental conservation problems confronting the United States today, together with proposals for a sound and constructive view with respect to meeting these issues." Foreword.

RICH LAND, POOR LAND Stuart Chase McGraw 1936
\$2.50

"The author has written a fascinating story of waste in all the basic resources of the United States. All of us as citizens, not merely farmers, foresters and miners, are held responsible. Clear, vivid, well-illustrated." American Association for the Advancement of Science.

THE SOUTH; its economic-geographic development A. E. Parkins
Wiley 1938 \$5.00

"Describes and interprets the civilization of the South, which includes its general environment, along with its cultural features, patterns, and institutions that have evolved since the settling of the region. The book is an objective, factual study intended for the well-read layman." Booklist.

SOUTHERN REGIONS OF THE UNITED STATES Howard W. Odum
The University of North Carolina Press 1936 \$4.00

"This volume is based on the work of the Southern regional committee of the Social Science Research Council in the South. It is a comprehensive study which provides a realistic picture of the regional culture of the South. It contains more than 700 indices and some 600 maps, charts and tables." Book Review Digest.

In connection with this book the following may be used:

MANUAL FOR SOUTHERN REGIONS Lee M. Brooks The
University of North Carolina Press 1937

A study manual to accompany the above.

Condensations of the material in Odum are found in:

WASTED LAND Gerald W. Johnson The University of
North Carolina Press 1937 \$1.50

The facts are based on Odum, *Southern Regions of the United States*, but the conclusions are original with the author.

THE SOUTH'S PLACE IN THE NATION Rupert B. Vance
New York Public Affairs Committee 1938 10 cents
(Public Affairs Pamphlet No. 6)

"Analyzes the economic and cultural status of the South and discusses possible means of regional reconstruction." Vertical File Service.

VIRGINIA Edited by Charlotte Allen State of Virginia Depart-
ment of Agriculture and Immigration Richmond, Va. n.d.

This descriptive bulletin is distributed by the Department which sponsored its publication. The photographic illustrations are particularly attractive.

VIRGINIA ECONOMIC AND CIVIC Virginia Polytechnic Institute
Whittet & Shepperson Richmond, Va. 1933 \$4.00

"Seven hundred copies of this book have been printed." An economic and social survey of Virginia made by the Virginia Polytechnic Institute and the Virginia State Chamber of Commerce. Includes chapters on the land, forests and water supplies.

LEGISLATION

There have been a few compilations of laws relating to conservation, both as a national and state problem. For a complete account one should consult the *Code of Laws* of the United States and of Virginia, with the various supplements. One phase which has received particular attention in Virginia is the Billboard legislation, which is discussed in the *Yearbook of the Associated Clubs of Virginia for Roadside Development*, 1939-40. The report of a survey of Billboard legislation in New England, made by Mr. and Mrs. W. L. Lawton, will be found in the April, 1939 issue of the American Nature Association *Quarterly Bulletin*.

FEDERAL LAWS RELATING TO THE PROTECTION OF WILDLIFE In
the *Report of the Special Committee on the Conservation of Wildlife Resources* Senate Report No. 1203 76th Congress, 3d Session
U. S. Government Printing Office 1940 pp. 26-63.

FOREST FIRE LAWS OF VIRGINIA Virginia Conservation Commis-
sion Virginia Forest Service Publication No. 2 1938

LAWS OF VIRGINIA relating to State Commission on Conservation and
Development [Virginia Conservation Commission] 1935

In 1938 the name of this body was changed from State Commission on Conservation and Development to Virginia Conservation Commission.

LAWS RELATING TO AGRICULTURE Compiled by Elmer A. Lewis
U. S. Government Printing Office 1937 25 cents

LAWS RELATING TO FORESTRY, GAME CONSERVATION, FLOOD CON-
TROL, AND RELATED SUBJECTS Compiled by Elmer A. Lewis
U. S. Government Printing Office 1938 15 cents

VIRGINIA GAME, INLAND FISH AND DOG LAWS Commission of
Game and Inland Fisheries 1939

PLANNING

Planning is one means by which the government is hoping to solve the problems which erosion, floods, and unwise use of the land have helped to create. It is a question which concerns each one as an individual and as a citizen of his community, his county, his state and the Nation. The activities of the various planning boards of Virginia and the United States display this breadth of interest.

COUNTY AGRICULTURAL PROGRAM PLANNING DISCUSSION LEAFLETS
Virginia Polytechnic Institute Agricultural Extension Division
Blacksburg, Va. 1938 (Mimeographed pamphlets)

Leaflets discussing land resources, cropping systems, and suggested policies and programs have been published for all the counties of Virginia. These may be secured from the County Agents.

NATIONAL RESOURCES PLANNING BOARD

Complete reports of investigations and recommendations made by the National Resources Planning Board and its predecessor, the National Resources Committee, are available from the Board and the Superintendent of Documents, Washington, D. C. These are listed in the Price List, *Public Domain*, and in the *Publications on Planning for Soil, Water, and Wildlife Conservation* . . . See: Bibliographies.

NATIONAL RESOURCES PLANNING FACTS [National Resources
Planning Board] U. S. Government Printing Office 1939
5 cents

RECENT TRENDS IN RURAL PLANNING William E. Cole and Hugh
P. Crowe Prentice-Hall 1937 \$3.50

"A survey of attempts which have been made to solve rural problems and to plan for more adequate rural life, citing experiences in the United States and in foreign countries. A useful book for the classroom, for workers, and for citizens in rural communities." Booklist.

STATE CONSERVATION OF RESOURCES Study made for the National
Resources Committee [National Resources Planning Board]
U. S. Government Printing Office 1939 15 cents

VIRGINIA STATE PLANNING BOARD REPORTS Vol. 1-10 Rich-
mond, Va. 1935-37

Vol. 2, *Natural Resources*, Vol. IV-A, *Land Use and Agriculture*, Vol. IV-B, *Agriculture*, and Vol. X, *Drainage Basin Studies*, are especially recommended. These reports present through text, charts, and maps a graphic description of the situation in the State.

SOIL CONSERVATION

Conservation of the soil is fundamental. To use the telling phrase from *The River*, "Poor land makes poor people—poor people make poor land." We must remember that it is not our heritage alone but that of our children which we must guard.

BEHOLD OUR LAND Russell Lord Houghton 1938 \$3.00

"For three years the author, not a specialist but a writer and formerly an editor of the *Country Home*, has traveled up and down the country interviewing farmers and agriculturists, observing conditions east and west, preparatory to writing this book on what Americans have done to the soil, and what can be done in the future to stop soil erosion." Book Review Digest.

CONSERVATION CHARTS U. S. Department of Agriculture Soil
Conservation Service U. S. Government Printing Office n.d.
10 charts 5 cents each

These charts graphically present soil erosion, contour farming, strip cropping, terraces, cover crops, gully control, saving soil and water on pasture lands, trees and shrubs for erosion control, wildlife, and farm ponds. They are distributed free to schools and colleges, instructors, agricultural and extension workers, and educational group leaders. Others may purchase them from the Superintendent of Documents.

COVER CROPS FOR SOIL CONSERVATION Walter V. Kell and Roland
McKee U. S. Department of Agriculture Farmers' Bulletin No.
1758 U. S. Government Printing Office 1936 5 cents

EARLY EROSION CONTROL PRACTICES IN VIRGINIA A. R. Hall
U. S. Department of Agriculture Miscellaneous Publication No.
256 U. S. Government Printing Office 1938 10 cents

PREVENTION AND CONTROL OF GULLIES Hans G. Jepson U. S.
Department of Agriculture Farmers' Bulletin No. 1813 U. S.
Government Printing Office 1939 10 cents

SAVING OUR SOIL Maxwell S. Stewart New York Public
Affairs Committee 1937 10 cents (Public Affairs Pamphlet
No. 14)

A plea for a national program of soil conservation and flood control.

SAVING VIRGINIA SOILS Lyman Carrier U. S. Department of
Agriculture Soil Conservation Service SCS-MP-16 1936
(Mimeographed pamphlet)

The eleven point erosion control program for Virginia written by members of the Virginia Soil Conservation Staff.

SOIL CONSERVATION DISTRICTS FOR EROSION CONTROL U. S.
Department of Agriculture Soil Conservation Service Miscel-
laneous Publication No. 293 U. S. Government Printing Office
1937 10 cents

SOIL DEFENSE IN THE PIEDMONT E. M. Rowalt U. S. Depart-
ment of Agriculture Farmers' Bulletin 1767 U. S. Govern-
ment Printing Office 1938 15 cents

"This bulletin deals with erosion of the soil and measures of defense which have proved successful in controlling erosion in that part of the Piedmont country lying in the five states of Virginia, the Carolinas, Georgia, and Alabama."

SOIL, THE NATION'S BASIC HERITAGE: A study of restoration of natu-
ral water control, through soil conservation and improvement Ten-
nessee Valley Authority U. S. Government Printing Office 1936
20 cents

SOILS AND MEN: Yearbook of Agriculture, 1938 U. S. Department
of Agriculture U. S. Government Printing Office 1938 \$1.75
Contents: (1) The Nation and the soil, (2) The farmer and the soil, (3) Soil and
plant relationships, (4) Fundamentals of soil science, (5) Soils of the United States.

"No man has the right to destroy soil even if he does own it in fee simple . . .
In this book the effort is made to discover man's debt and duty to the soil."—Henry
A. Wallace, Secretary of Agriculture.

STRIP CROPPING FOR SOIL CONSERVATION Walter V. Kell and
Grover F. Brown U. S. Department of Agriculture Farmers'
Bulletin No. 1776 U. S. Government Printing Office 1938
5 cents

TEN BILLION LITTLE DAMS U. S. Department of Agriculture
Soil Conservation Service Rev. ed. U. S. Government Printing
Office 1939 Free

TERRACING FOR SOIL AND WATER CONSERVATION C. L. Hamilton
U. S. Department of Agriculture Farmers' Bulletin No. 1789
U. S. Government Printing Office 1938 10 cents

TO HOLD THIS SOIL Russell Lord U. S. Department of Agri-
culture Miscellaneous Publication No. 321 U. S. Government
Printing Office 1938 45 cents

"The purpose here is to exhibit conditions and methods of defensive husbandry . . .
The idea of this publication is not to fix or to direct opinion, but to arouse it. Its
major conclusion is this: The soil must be governed, and so far as possible, it should
be self-governed." The author.

WHAT IS SOIL EROSION? C. F. Stewart Sharpe U. S. Department of Agriculture Miscellaneous Publication No. 286 U. S. Government Printing Office 1938 15 cents

"This study helps materially to clarify our understanding of the erosional processes and aids in our analysis of the problems of erosion control and soil conservation in land use." Foreword.

WATER

Conservation of water has a two-fold aspect. The land must be defended from the ravages of floods, and the water supply must be protected from pollution. The condition of forests, soil and wildlife is closely allied to the water supply.

CONSERVATION FARMING PRACTICES AND FLOOD CONTROL H. H. Bennett U. S. Department of Agriculture Soil Conservation Service Miscellaneous Publication No. 253 U. S. Government Printing Office 1938 5 cents

FLOOD CONTROL: Papers presented at the 62nd annual meeting of the American Forestry Association Cincinnati and Zanesville, Ohio, May 31-June 3, 1937 American Forestry Association, Washington, D. C. Free

The connection between land, forests and vegetal covering in flood control.

THE LAND IN FLOOD CONTROL U. S. Department of Agriculture Office of Land Use Coordination Miscellaneous Publication No. 331 U. S. Government Printing Office c. 1938 10 cents

LITTLE WATERS: A study of headwater streams and other little waters, their use and relation to the land Rev. ed. H. S. Person and others U. S. Soil Conservation Service, Resettlement Administration, and Rural Electrification Administration U. S. Government Printing Office 1936 15 cents

"An attractive booklet whose theme is that man has violated basic arrangements in a manner which Nature will not tolerate. Contains practical suggestions for individual and group action in reestablishing the natural circulation of waters." American Association for the Advancement of Science.

WATER POLLUTION IN THE UNITED STATES National Resources Planning Board 1st, 2nd and 3rd reports of the Special Advisory Committee on Water Pollution U. S. Government Printing Office 1935-37 3 vols. (Mimeographed)

WATER: The orphan step-child of conservation Kenneth A. Reid
American Nature Association Quarterly Bulletin Vol. 2, No. 1
January, 1939 25 cents

TREES AND FORESTRY

This section includes books which consider the viewpoint of both the individual lover of trees and the person who wishes to conserve forests, or develop profitable wooded sections on his land.

AMERICAN CONSERVATION, in picture and in story Ovid Butler
American Forestry Association 1935 \$2.50

"Primarily concerned with forest conservation although subjects intimately connected, such as wild life, fish, insects and tree diseases are also considered. Beautifully illustrated." American Association for the Advancement of Science.

ARBOR DAY, its purpose and observance U. S. Department of
Agriculture Farmers' Bulletin No. 1492 U. S. Government
Printing Office 1936 5 cents

THE CARE AND IMPROVEMENT OF THE FARM WOODS C. R. Tillotson
U. S. Department of Agriculture Farmers' Bulletin No.
1177 U. S. Government Printing Office 1939 5 cents

CARE OF FORESTS AND CUTTING FOR PROFIT Herman Work and
W. R. Gingerich West Virginia Pulp & Paper Company, Covington,
Virginia 1939

COMMON FOREST TREES OF VIRGINIA, how to know them Chapin
Jones and Wilbur R. Mattoon Virginia Conservation Commission
Virginia Forest Service Publication No. 26 1938 Free

A simple description in accurate and non-technical terms, of the common forest trees of the State.

COMMUNITY FORESTS Nelson C. Brown U. S. Department of
Agriculture Forest Service U. S. Government Printing Office
1939 10 cents

A plea for community forests which will not only aid in land, water and wildlife conservation but also reduce taxes.

FARM FORESTRY FOR VIRGINIANS Wilbur O'Byrne and J. B. Grant-ham
Virginia Polytechnic Institute Bulletin Vol. XXXI,
No. 5 Blacksburg, Va. 1938

FIELD BOOK OF AMERICAN TREES AND SHRUBS F. Schuyler
Mathews Putnam c. 1915 \$3.50

A concise description of the character and color of species common throughout the United States, together with maps showing their general distribution.

FORESTRY Government publications concerning tree planting,
ranges, lumber and timber Price list No. 43 U. S. Government
Printing Office Free

KNOWING YOUR TREES, with photographs of the full tree—leaf, bark,
flower and fruit G. H. Collingwood American Forestry Asso-
ciation 1938 \$1.00

This volume contains "the first fifty tree descriptions which have appeared in (the magazine) *American Forest* . . . (The material includes) the characteristic appearance of each tree as recorded by the camera, together with its botanical features, its uses and economic importance, the meaning of its scientific name and the many details that distinguish it from its fellows of forest and roadside." Foreword.

MANUAL OF THE TREES OF NORTH AMERICA C. S. Sargent
783 illustrations from drawings Popular ed. Houghton 1933
\$5.00

"An excellent handbook which contains brief descriptions of trees with a drawing of the leaf, flower and fruit of each tree, and keys for identification of species. Invaluable for the student of trees." A. L. A. Catalog.

THE NATION'S FORESTS W. A. DuPuy Macmillan 1938
\$3.00

"An account written for the layman, of our national forests, their extent and location, and of the work of the United States Forest Service in preserving the trees already standing, and in encouraging new growths. The book is illustrated with many photographs which show forests, individual trees, and men of the Forest Service at work." Book Review Digest.

OUR NATION'S FORESTS Rosalie Edge Conservation Unit VI
Publication No. 73 Emergency Conservation Committee,
734 Lexington Ave. New York City 1938 10 cents

THE PEOPLE'S FORESTS Robert Marshall Random House 1933
\$2.00

"An argument for national ownership of forests as the only alternative to future forest bankruptcy that the author believes will be the inevitable result of the destructive policies of private ownership." Booklist.

THE SOUTHERN PINE BEETLE: A serious enemy of pines in the South
R. A. St. George and J. A. Beal U. S. Department of Agriculture
Farmers' Bulletin No. 1586 U. S. Government Printing Office
1929 5 cents

TAMING OUR FORESTS Martha B. Bruère U. S. Department of
Agriculture Forest Service U. S. Government Printing Office
1939 15 cents

We must tame our forests to make them produce the products which we need.

TRANSPLANTING TREES AND OTHER WOODY PLANTS A. Robert
Thompson U. S. Department of the Interior National Park
Service Conservation Bulletin No. 5 Tree Preservation Bulletin
No. 9 U. S. Government Printing Office 1940 10 cents

TREATMENT AND CARE OF TREE WOUNDS J. Franklin Collins
U. S. Department of Agriculture Farmers' Bulletin No. 1726
U. S. Government Printing Office 1934 5 cents

TREES OF THE SOUTH Charlotte H. Green The University of
North Carolina Press 1939 \$2.50

"Description and photographs of the important trees of the southern section of the
United States, with emphasis on the eastern part of that locality." Book Review
Digest.

Popular—useful for children or adults.

TREES OF THE SOUTHEASTERN STATES William C. Coker and
Henry R. Totten 2d ed. The University of North Carolina
Press 1937 \$2.00

Illustrates only leaves and flowers of 227 native trees, and 21 foreign trees escaped
from cultivation and become wild.

VIRGINIA FORESTS OUR HERITAGE Virginia Conservation Commission
Virginia Forest Service 1938 Free

WILD FLOWERS

Wild flowers must be conserved in their native situation as well as
in wild flower gardens. These books will aid one in readily recognizing
both the rare and common species.

AMERICAN PLANTS FOR AMERICAN GARDENS Edith A. Roberts
and Elsa Rehmann Macmillan 1929 \$2.00

"This attractive handbook with its charming photographs, describes the plants indigenous to the United States, tells where they grow and how to transplant them to new and appropriate settings." Book Review Digest.

A BOOK OF WILD FLOWERS Margaret McKenney Macmillan
1939 \$2.00

"Colored sketches of thirty-three American wild flowers, each with a short prose description. Small black and white sketches show the pods and seed of the flowers. The arrangement is by season." Book Review Digest.

Useful for children and adults.

FIELD BOOK OF AMERICAN WILD FLOWERS F. Schuyler Mathews
Rev. and enl. ed. Putnam 1929 \$3.50

Being a short description of their character and habits, a concise definition of their colors, and incidental references to the insects which assist in their fertilization.

FIELD BOOK OF COMMON FERNS for identifying fifty conspicuous
species of eastern America, with directions for their culture Herbert
Durand Putnam 1928 \$2.50

"A fern book written in plain English." Preface.

FLORA OF RICHMOND AND VICINITY (Exclusive of grasses, sedges, and
trees) Paul R. Merriman Illustrated by Mary S. Lynn Vir-
ginia Academy of Science Richmond, Va. 1930 \$2.00

"It is hoped that the non-technical character of this work will render it useful to visitors to Virginia who are interested in the plant life of the State, to members of garden clubs, to students in schools and colleges in the Richmond area, and to lovers of nature in general." Introduction.

FLOWERS OF THE WILD; their culture and requirements Frank C.
Pellett New York A. T. DeLaMare Company, Inc. 1931
\$2.00

NATURE TRAILS AND WILDFLOWER PRESERVES IN VIRGINIA Garden
Club of Virginia Wildflower Committee n.d. pph.

Includes a list of Virginia plants and a bibliography of material on nature trails.

WILD FLOWERS Homer D. House Macmillan 1936 \$3.95

"Reproductions of colored photographs of nearly four hundred American wild flowers, with classifications and short descriptions of each flower. A long introductory chapter explains plant and flower structure, defines botanical terms and is illustrated with line drawings in the text." Book Review Digest.

WILD FLOWERS AND FERNS: in their homes and in our gardens
Herbert Durand Rev. and enl. ed. Putnam 1929 \$3.50

Illustrated with 23 colored plates and 140 illustrations, all from photographs taken in the wild, and showing the plants as they grow in their natural haunts. "The book can be warmly recommended to every one who is so fortunate as to have an opportunity to engage actively in the fascinating and very necessary work of preserving, protecting and increasing the wild flowers by the application of approved cultural methods." Foreword.

WILDLIFE

Conservation of wildlife, especially birds, may easily become a hobby as well as a subject for study. These books are written to interest the casual reader, or the gardener, as well as the bird-lover, naturalist, or student.

GENERAL

BIRDS AND WILD ANIMALS Price list 39, 33rd edition U. S.
Government Printing Office 1938 Free

List of publications relating to above subjects for sale by Superintendent of Documents, Washington, D. C.

FEEDING WILDLIFE IN WINTER Wallace B. Grange U. S. Depart-
ment of Agriculture Farmers' Bulletin No. 1783 U. S. Govern-
ment Printing Office 1938 5 cents

FIELD BOOK OF NORTH AMERICAN MAMMALS; descriptions of every mammal known north of the Rio Grande, together with brief accounts of habits, geographical ranges, etc. H. E. Anthony Putnam
1928 \$5.00

With 32 colored plates and 175 photographs, pen-and-ink sketches and maps.

FIELD BOOK OF PONDS AND STREAMS: An introduction to the life of fresh water Ann Haven Morgan Putnam 1930 \$3.50
About 330 illustrations, including 23 plates in color and black and white.

GAME MANAGEMENT ON THE FARM J. N. Darling, H. P. Sheldon
and Ira N. Gabrielson U. S. Department of Agriculture Farmers'
Bulletin No. 1759 1936 5 cents

HANDBOOK OF WILDLIFE MANAGEMENT For Region II, Spartan-
burg, S. C. U. S. Department of Agriculture Soil Conservation
Service 1937 SCS-RB-3 (Mimeographed pamphlet)

HISTORY AND SIGNIFICANCE OF AMERICAN WILDLIFE Part I and II
H. P. Sheldon U. S. Department of Agriculture Bureau of
Biological Survey Wildlife research and management leaflet BS-108,
BS-126 1938

IMPROVING THE FARM ENVIRONMENT FOR WILD LIFE Wallace
B. Grange and W. L. McAtee U. S. Department of Agriculture
Farmers' Bulletin No. 1719 U. S. Government Printing Office
1934 5 cents

PLANNING FOR WILDLIFE IN THE UNITED STATES Part IX, Sup-
plementary report of the Land Planning Committee to National
Resources Board U. S. Government Printing Office 1935
10 cents

PLANNING FOR WILDLIFE MANAGEMENT—an outline U. S. Depart-
ment of Agriculture Bureau of Biological Survey Wildlife
research and management leaflet BS-107 1938

WILDLIFE CONSERVATION PROGRAM OF THE SOIL CONSERVATION
SERVICE U. S. Department of Agriculture Soil Conservation
Service 1938 SCS-AR-3 (Mimeographed pamphlet)

WILDLIFE CONSERVATION THROUGH EROSION CONTROL IN THE
PIEDMONT Ross O. Stevens U. S. Department of Agriculture
Farmers' Bulletin No. 1788 U. S. Government Printing Office
1938 5 cents

WILDLIFE IN LAND PLANNING W. L. McAtee U. S. Depart-
ment of Agriculture Bureau of Biological Survey Wildlife
research and management leaflet BS-71 1936

BIRDS

AMERICAN BIRD BIOGRAPHIES Arthur A. Allen With ten color
plates and ten wash drawings by George M. Sutton, and 190 photo-
graphs of the birds in nature by the author Ithaca, N. Y. Com-
stock Publishing Co. 1934 \$3.50

"In this little book of bird biographies I have attempted to let each bird tell its own
life story as a real neighbor might, in the hope that it may elicit interest in its
welfare and provide a new outlook for the nature-lover who is ready to progress
beyond the naming or cataloguing stage of his bird-study." Introduction.

Interesting to the general reader, the bird-lover, teachers and children.

ATTRACTING BIRDS W. L. McAtee U. S. Department of the
Interior Bureau of Biological Survey Conservation Bulletin No. 1
U. S. Government Printing Office 1940 5 cents

BIRDS IN THE GARDEN Margaret McKenney Reynal and Hitch-
cock 1939 \$5.00

"Bird lovers and garden owners the country over will welcome *Birds in the Garden* because it faces so squarely the problems concerned with attracting birds to the dooryard." George M. Sutton in the New York *Herald-Tribune Books*.

THE BIRDS OF LYNCHBURG, VIRGINIA, AND VICINITY Ruskin S.
Freer Lynchburg College Bulletin Vol. 7, No. 1 1939
Lynchburg, Va.

Annotated list of 202 species observed in this area during the last 15 years.

BIRDS OF THE STATES: How, when and why they were chosen as
official emblems Katherine B. Tippetts Illustrated by R. Bruce
Horsfall American Nature Association n.d. Free

THE BOOK OF BIRD LIFE Arthur A. Allen Van Nostrand
1930 \$3.50

". . . a guide to bird habits rather than bird identification . . . [which] aims to outline the underlying principles that govern the actions of any bird and to suggest methods of study." Preface.

COMMON BIRDS OF SOUTHEASTERN UNITED STATES IN RELATION
TO AGRICULTURE F. E. L. Beal, W. L. McAtee and E. R. Kalm-
bach U. S. Department of Agriculture Farmers' Bulletin No.
755 U. S. Government Printing Office 1927 5 cents

FIELD BOOK OF WILD BIRDS AND THEIR MUSIC; a description of the
character and music of birds, intended to assist in the identification of
species common in the United States East of the Rocky Mountains.
F. Schuyler Mathews Rev. and enl. ed. Putnam 1921 \$3.50
"A field-book filled with the musical sayings of American birds." Preface.

A FIELD GUIDE TO THE BIRDS (EASTERN) Roger T. Peterson
Rev. and enl. ed. Houghton 1939 \$2.75

"A handbook—designed to complement the standard ornithological works, a guide to the field-marks of Eastern birds, wherein live birds may be run down by impressions, patterns and distinctive marks, rather than by the anatomical differences and measurements that the collector would find useful." Preface.

FOOD OF SOME WELL KNOWN BIRDS OF FOREST, FARM, AND GARDEN
F. E. L. Beal and W. L. McAtee U. S. Department of Agriculture
Farmers' Bulletin No. 506 U. S. Government Printing Office
1922 5 cents

FRUITS ATTRACTIVE TO BIRDS—Southeastern States W. L. McAtee
U. S. Department of Agriculture Bureau of Biological Survey
Wildlife research and management leaflet BS-49 1936

HANDBOOK OF BIRDS OF EASTERN NORTH AMERICA Frank M.
Chapman Illustrated by Louis A. Fuertes and others 2d ed.,
rev. Appleton 1930 \$5.00

"This is an exhaustive manual of the five hundred species so free from technicalities as to be intelligible to a fourteen year old boy, and so convenient and full of original information as to be indispensable to a working ornithologist. A description of each species is followed by geographic range, time of presence at different places, eggs, and a brief popular account of habits." A. L. A. Catalog.

HOMES FOR BIRDS E. R. Kalmbach and W. L. McAtee U. S.
Department of Agriculture Farmers' Bulletin No. 1456 U. S.
Government Printing Office 1930 5 cents

HOW TO ATTRACT BIRDS IN THE MIDDLE ATLANTIC STATES W. L.
McAtee U. S. Department of Agriculture Farmers' Bulletin
No. 844 U. S. Government Printing Office 1932 5 cents

THE MIGRATION OF NORTH AMERICAN BIRDS Frederick C. Lin-
coln U. S. Department of Agriculture Circular No. 363 U. S.
Government Printing Office 1935 10 cents

"A brief presentation of facts on the migratory habits of the birds, scientifically gathered by the Bureau of Biological Survey over many years, will be helpful to bird-study classes, to conservation organizations, and to farmers and others individually interested in the welfare of the birds." The author.

NATURAL HISTORY OF THE BIRDS OF EASTERN AND CENTRAL NORTH
AMERICA Edward R. Forbush and John B. May Illustrated in
color by Louis Agassiz Fuertes, Allan Brooks and Roger T. Peterson
Houghton 1939 \$4.95

A revision of the three volume work by Forbush, *The Birds of Massachusetts and Other New England States*, long recognized as a masterpiece in this field.

PUBLICATIONS ON ATTRACTING BIRDS U. S. Department of Agri-
culture Bureau of Biological Survey Wildlife research and
management leaflet BS-8 1935

SHORTAGE OF WATERFOWL Ellsworth D. Lumley Conserva-
tion Unit I Publication No. 79 3d ed., rev. Emergency
Conservation Committee, 734 Lexington Ave., New York City 1940
10 cents

SMALL REFUGES FOR WATERFOWL Rev. ed. More Game Birds
in America, 500 Fifth Avenue, New York City 1936

SOME COMMON BIRDS USEFUL TO THE FARMER F. E. L. Beal
U. S. Department of Agriculture Farmers' Bulletin No. 630 U. S.
Government Printing Office 1926 5 cents

SONG-BIRD SANCTUARIES, with tables of trees, shrubs and vines attrac-
tive to birds Roger T. Peterson Circular No. 19 National
Association of Audubon Societies, 1775 Broadway, New York City
1937 25 cents

TRAVELING WITH THE BIRDS: A book on bird migration Rudyerd
Boulton Illustrated by W. A. Weber M. A. Donohue Co., 200
Fifth Ave., New York City 1933 \$1.50

A good first book of birds for children. The twelve color pictures may be purchased
separately.

USEFULNESS OF BIRDS ON THE FARM W. L. McAtee U. S.
Department of Agriculture Farmers' Bulletin No. 1682 U. S.
Government Printing Office 1931 5 cents

WILDFOWL FOOD PLANTS, their value, propagation, and management
W. L. McAtee Collegiate Press, Inc., Ames, Iowa 1939 \$1.50
A condensed account of information gathered by the Biological Survey and many
private workers on the most important wildfowl food plants.

EDUCATION

Education is now recognized as a lifelong process, and for this
reason there are books in this section designed to educate not only
the elementary school child but also the teacher, club leader and inter-
ested adult. There are also suggestions for those considering Conser-
vation Education as a profession.

AIDS FOR BIRD STUDENTS U. S. Department of Agriculture
Bureau of Biological Survey Wildlife research and management
leaflet BS-2 Rev. ed. 1937

BIRD STUDY FOR SCHOOLS and EDUCATIONAL LEAFLETS, two attractive series of illustrated leaflets for children, may be obtained from the National Association of Audubon Societies. The Society also sponsors the Junior Audubon Societies of which Mrs. J. Frank Key, Buena Vista, Va., is State Director. Mrs. Key has many interesting suggestions to offer to teachers and local club leaders.

COLOR PLATES AND PHOTOGRAPHS OF WILD FLOWERS, TREES AND BIRDS may be obtained from the Wild Flower Preservation Society for a nominal sum. Write for their price list and suggestions for teachers.

CONSERVATION EDUCATION PROBLEMS IN SCHOOLS American Nature Association Quarterly Bulletin Vol. 1, No. 3 October, 1938 25 cents

"This number comprises a statement showing assistance in conservation education available to schools, as indicated by work done by a Conservation Education Committee working cooperatively with the Graduate School of Cornell University and the American Nature Association." Foreword.

CONSERVATION IN THE EDUCATION PROGRAM William H. Bristow and Katherine M. Cook U. S. Department of Interior Office of Education Bulletin No. 4 U. S. Government Printing Office 1937 10 cents

A valuable booklet of suggestions for club leaders and teachers including methods for study, lists of material available, and names of government departments and private organizations interested in the subject.

CONSERVATION IN THE SCHOOL CURRICULUM Helen M. Strong U. S. Department of Agriculture Soil Conservation Service [1939] (Mimeographed pamphlet)

CONSERVATION WEEK IN THE SCHOOLS OF VIRGINIA Published and sponsored by the Garden Club of Virginia Distributed by the Department of Public Instruction, Richmond, Va.

Useful suggestions and articles which may be used not only in Conservation Week but also throughout the year.

GOOD REFERENCES FOR CONSERVATION EDUCATION in Elementary and Secondary Schools may be obtained from the U. S. Office of Education. Ask for Bibliographies No. 55, 70, 71, and 72.

HANDBOOK OF NATURE STUDY Anna B. Comstock 24th ed., rev. Comstock Publishing Co. 1939 \$4.00

LAND USE PROGRAM FOR THE SENIOR HIGH SCHOOL Helen M. Strong
U. S. Department of Agriculture Soil Conservation Service
July, 1939 (Mimeographed pamphlet)

SAVING OUR SOILS Harriet Carter U. S. Department of Agriculture
Soil Conservation Service (Mimeographed pamphlet)

A unit of study for junior and senior high schools.

SOME REFERENCES FOR TEACHERS ON SOIL CONSERVATION AND LAND USE Helen M. Strong U. S. Department of Agriculture
Soil Conservation Service Division of Information SCS-B-2
March, 1940 (Mimeographed pamphlet)

SUGGESTIONS FOR BIRD FIELD STUDY May T. Cooke U. S. Department of the Interior Bureau of Biological Survey Wildlife Leaflet BS-150 1940

TEACHING CONSERVATION OF WILDLIFE THROUGH 4-H CLUBS
Ruth Lohmann U. S. Department of Agriculture Miscellaneous Publication No. 291 U. S. Government Printing Office
1938 10 cents

By writing to the following organizations you may also secure interesting material:

AMERICAN MUSEUM OF NATURAL HISTORY, 77th St. and Central Park West, New York City. The Department of Education has published a series of pamphlets on nature trails, which may be obtained from the Museum.

BOY SCOUTS OF AMERICA, 2 Park Avenue, New York City. Publishes *Nature Collections* and *Boy's Life*.

CAMP FIRE GIRLS, 88 Lexington Avenue, New York City. Publishes *The Guardian* and *Nature Study Resource Material*, a list of free material.

Those interested in training in conservation education will find descriptions of courses available in various colleges, and opportunities in the field described in the following booklets:

COLLEGES AND UNIVERSITIES OFFERING COURSES IN WILDLIFE
MANAGEMENT, 1937-38 U. S. Department of Agriculture
Bureau of Biological Survey Wildlife research and management
leaflet BS-98 1937

OPPORTUNITIES FOR THE PREPARATION OF TEACHERS IN CONSER-
VATION EDUCATION Katherine M. Cook and Florence E. Rey-
nolds Federal Security Agency U. S. Office of Education
Pamphlet No. 90 U. S. Government Printing Office 1940
5 cents

A five week training course for nature leaders was offered by the Virginia Natural History Institute for the first time in 1940. Co-operating agencies were the National Park Service, the National Recreation Society, the Virginia State Conservation Commission, and the College of William and Mary. Complete information may be obtained by writing to the Institute, c/o R. C. Robinson, 906 Grace Securities Building, Richmond, Virginia.

FILMS

The films listed here are chiefly representative of those produced by the U. S. Government Departments and loaned upon payment of transportation costs. For a complete list of government films consult the *Directory of U. S. Films*, which is prepared by the U. S. Film Service, Washington, D. C., and sent free upon request. Filmstrips and lantern slides are also available from the Department of Agriculture and the Department of the Interior. For complete information write directly to the Department.

Films produced by both governmental and commercial agencies will be found listed in the following catalogs:

Catalog of Films for Classroom Use. Teaching Film Custodians, Inc., 25 West 43rd Street, New York City. Price 50 cents. Films loaned to educational institutions only.

Eastman Classroom Films. Eastman Kodak Co., Teaching Films Division, Rochester, N. Y. Lists only films for sale by the Eastman Co.

Educational Film Catalog. H. W. Wilson Co., New York City.
A selected, classified list of non-theatrical films. This catalog is not sold to individuals but may be available in the larger school or public libraries.

All of these catalogs have been consulted in preparing this list, and the comments quoted are taken from them.

GENERAL

CONSERVATION OF NATURAL RESOURCES (1937) 10 minutes
16 and 35 mm. Sound May be rented from the University
System of Georgia, Division of General Extension, 223 Walton Street,
N. W., Atlanta, Ga.

Water power, forests and farm lands are discussed. Recent projects planned to check the damage inflicted by former unwise use are pictured. Suitable for junior and senior high school and college age.

NATIONAL CONSERVATION (1939) 2 reels 16 and 35 mm.
Sound Loaned by the Department of the Interior.

Illustrates the work of the Department of the Interior in conservation of natural resources.

PRICE OF PROGRESS 20 minutes 16 and 35 mm. Sound
Loaned by the Department of the Interior.

"The story of the white man's destruction of America's natural resources, his late awakening to the fact that these resources must be saved, and his present efforts to do something about it." Producer.

THE U. S. DEPARTMENT OF AGRICULTURE, its fields and services
1 reel 16 and 35 mm. Silent Loaned by the Department of
Agriculture.

VIRGINIA

HUMAN CROP 1 reel 16 and 35 mm. Sound Loaned
by the Department of the Interior.

Development of organized camping and general recreational facilities on lands unsuited for agricultural or industrial purposes; featuring the 15,000-acre Chopawamsic area between Washington and Richmond.

SHENANDOAH NATIONAL PARK 1 reel 16 and 35 mm. Silent
Loaned by the National Park Service, Department of the Interior.
Scenic views in the Park, featuring the Sky-line Drive.

SOIL AND WATER

THE RIVER (1937) 3 reels 16 and 35 mm. Sound
Loaned by the U. S. Film Service.

Dramatization of the Mississippi River and life in the Great Valley, but of general interest in its dramatic presentation of the recent floods and erosion disasters. An excellent study-guide is available for use with the film.

SAVE THE SOIL (1932) 2 reels 16 and 35 mm. Silent
Loaned by the U. S. Department of Agriculture.

A general presentation of the problem of soil conservation suitable for adult or high school groups.

TERRACING TO SAVE OUR FARMS (1935) 11 minutes 16 and 35 mm. Sound
Loaned by the International Harvester Co., Inc., 180 North Michigan Avenue, Chicago, Illinois.

Presents corrective measures such as terracing, strip cropping, and contour farming which can be used to repair erosion damage. Suitable for adult or high school groups.

WASTED WATERS (1939) 2 reels 16 and 35 mm. Sound
Loaned by the Director of Information, Tennessee Valley Authority, Knoxville, Tennessee.

An explanation of the unified river control program of the TVA.

WISE LAND USE PAYS (1939) 2 reels 19 minutes 16 and 35 mm. Sound
Loaned by the U. S. Department of Agriculture.

"Discusses the principles of soil conservation by the use of contour cropping, and reforestation of land unsuited to crops or pasture."

WILD FLOWERS

EASTERN WILD FLOWERS 30 minutes 16 and 35 mm. Silent
Rented by the Wild Flower Preservation Society, 3740 Oliver Street, Washington, D. C. The charge is \$2.50 for the 16 mm., \$5.00 for the 35 mm.

"Mass and close-up views of about 60 different common wild flowers with legends covering their cultivation and need for protection. One subject shows lapsed time pictures of the water lily." Producer.

WILD FLOWERS 45 minutes 16 mm. Silent
Loaned by the Wisconsin Conservation Department, Madison, Wisconsin.

"A three reel subject in natural color, showing the wild flowers found in Wisconsin from early spring until snowfall." Producer.

FORESTRY

A B C OF FORESTRY (1937) 1 reel 16 and 35 mm. Silent or sound Loaned by the U. S. Department of Agriculture.

A Forest Service film which teaches the fundamentals of tree growth and good forestry practices. Suitable for all age levels.

FOREST AND WATER 1 reel 16 and 35 mm. Silent or sound Loaned by the U. S. Department of Agriculture.

A Forest Service film which "points out the vital influence that the forest has on water supply. Photography made largely in the mountains of western North Carolina."

FORESTS AND STREAMS 1 reel 16 and 35 mm. Silent Loaned by the U. S. Department of Agriculture.

"To teach the importance of protecting the forest soil and maintaining its water-storage capacity." Producer.

HOW FORESTS SERVE 1 reel 16 and 35 mm. Silent Loaned by the U. S. Department of Agriculture.

A Forest Service film "designed to teach the values of the forest to mankind and the importance of proper management of the forest." Producer.

PINE WAYS TO PROFIT (1939) 2 reels 16 and 35 mm. Sound Loaned by the U. S. Department of Agriculture.

Exposes the fallacy of "burning off" the pine forests. Of special interest to Virginians.

THE TREE OF LIFE (1938) 2 reels 25 minutes 16 and 35 mm. Sound Loaned by the Department of Agriculture.

"The part forests play in community prosperity and improved standards of living when managed for sustained yield of their products." Producer.

UNBURNED WOODLANDS 1 reel 16 and 35 mm. Silent Loaned by the U. S. Department of Agriculture.

"Contrasts the advantages of unburned with the disadvantages of burned woodlands. Made in the mountains of North Carolina." Educational Film Catalog.

BIRDS

FLYWAYS OF MIGRATORY WATERFOWL (1935) 1 reel 16 and 35 mm. Sound Produced by the Biological Survey Loaned by the U. S. Department of the Interior.

"Record of studies showing that migrations of waterfowl are made over four well-defined routes." Producer.

NATURE'S SONGSTERS 1 reel 16 mm. Sound Rented to schools by Teaching Film Custodians, Inc., 25 West 43rd Street, New York City. Rental fee is \$5.00 for 2 weeks or less.

Songs and habits of several American birds made under supervision of Arthur Allen of Cornell University. Useful for nature study in lower grades, and ornithology in upper grades.

ROBIN RED BREAST 11 minutes 16 and 35 mm. Sound
Rented by the University System of Georgia, Division of General Extension, 223 Walton Street, N. W., Atlanta, Ga.

This story of a robin family is considered one of the best bird films available for elementary grades.

SONG BIRDS 15 minutes 16 mm. Silent Rented by the National Association of Audubon Societies, 1775 Broadway, New York City. Rental fee is \$1.50 plus transportation charges.

"Our native song birds; close-ups of the birds we know best, feeding, nesting, etc." Producer.

PERIODICALS

GENERAL

AMERICAN BIOLOGY TEACHER (Eight Times Per Year) American Biological Association Lancaster, Pennsylvania Membership

AMERICAN FORESTS (Monthly) American Forestry Association
Washington, D. C. \$4.00

AMERICAN WILDLIFE (Bi-monthly) American Wild Life Institute
Washington, D. C. \$5.00

BIRD-LORE (Bi-monthly) National Association of Audubon Societies
New York City \$1.50

CONSERVATION (Bi-monthly) American Forestry Association
Washington, D. C. \$1.00

NATURE MAGAZINE (Monthly) American Nature Association
Washington, D. C. \$5.00

SOIL CONSERVATION (Monthly) Soil Conservation Service,
U. S. Department of Agriculture Washington, D. C. \$1.00

WILD FLOWER (Quarterly) Wild Flower Preservation Society
Washington, D. C. \$1.50

VIRGINIA PUBLICATIONS

COMMONWEALTH (Monthly) Virginia Chamber of Commerce
Richmond, Virginia \$1.00 and controlled free distribution

EXTENSION DIVISION NEWS, THE (Monthly) Virginia Agricultural Extension Division
V. P. I., Blacksburg, Virginia Free

GARDEN GOSSIP (Monthly) Garden Club of Virginia, and
Virginia Federation of Garden Clubs 1406 East Franklin Street,
Richmond, Virginia \$1.00

RAVEN, THE (Monthly) Virginia Society of Ornithology
c/o Dr. J. J. Murray, Editor, Lexington, Virginia

SHENANDOAH QUARTERLY (Quarterly) Shenandoah Nature
Society Luray, Virginia

UNIVERSITY OF VIRGINIA NEWS LETTER (Semi-monthly) School
of Rural and Social Economics University of Virginia, Charlottesville,
Virginia Free

VIRGINIA FARM ECONOMICS Virginia Agricultural Extension Division
V. P. I., Blacksburg, Virginia Free

VIRGINIA 4-H CLUB LETTER Virginia Agricultural Extension
Division V. P. I., Blacksburg, Virginia Free

VIRGINIA GARDENS (Monthly) Richmond Federation of Garden
Clubs 109 East Cary Street, Richmond, Virginia 50 cents;
Members 25 cents

VIRGINIA JOURNAL OF SCIENCE, THE (Monthly except June,
July, August and September) Virginia Academy of Science Lexington,
Virginia \$1.00 for members; \$2.00 for non-members

VIRGINIA WILDLIFE (Monthly) The Virginia Wildlife Federation
Blacksburg, Virginia 25 cents

GOVERNMENT AGENCIES

These lists of Government departments and agencies, and lay organizations interested in the subject of conservation are an indication of the many sources to which one may go for information and assistance. A great deal of the printed material which they publish is distributed free or for a very nominal sum.

The list does not pretend to be complete, nor does it claim to indicate all of the activities of any of the departments or associations described. The information about Federal departments was mostly condensed from the *U. S. Government Manual*, February, 1940, edition. The information about State agencies and non-governmental organizations was mainly taken from their publications and letters received in answer to inquiries. Further information may be secured by writing directly to the agency concerned.

U. S. CONGRESS—COMMITTEES

SENATE

STANDING COMMITTEES

AGRICULTURE AND FORESTRY

IRRIGATION AND RECLAMATION

SPECIAL COMMITTEES

SPECIAL COMMITTEE ON CONSERVATION OF WILDLIFE RESOURCES

This Committee has published the following reports:

Wildlife and the Land: a Story of Regeneration. Report to the Senate, January, 1937 Washington, D. C. U. S. Government Printing Office 1937

The Status of Wildlife in the United States. Senate Report No. 1203 76th Congress, 3d Session U. S. Government Printing Office 1940

Contents: Federal laws relating to the protection of wildlife; Report of the U. S. Biological Survey; Report of the U. S. Bureau of Fisheries; Report of the Forest Service; Report of the National Park Service; Report of the Wildlife Conservation work of the Soil Conservation Service; Report of the Office of Indian Affairs. These reports deal with the activities of those agencies which especially relate to wildlife conservation, and were prepared for the Committee.

HOUSE OF REPRESENTATIVES

STANDING COMMITTEES

AGRICULTURE

IRRIGATION AND RECLAMATION

SPECIAL COMMITTEES

SELECT COMMITTEE ON CONSERVATION OF WILDLIFE RESOURCES

This Committee has published the following reports:

Conservation of Wildlife. Hearing before the Committee on migratory waterfowl conservation and restoration 75th Congress, 1st Session June 16, 1937 U. S. Government Printing Office 1937

Conservation of Wildlife. Hearings before the Committee 75th Congress, 3d Session U. S. Government Printing Office 1938

Wildlife Conservation Report of the Committee 76th Congress, 1st Session House Report No. 1, January 3, 1939 U. S. Government Printing Office 1939

Conservation of Wildlife. Hearings before the Committee 76th Congress, 1st Session U. S. Government Printing Office 1939

FEDERAL DEPARTMENTS AND AGENCIES

DEPARTMENT OF AGRICULTURE

The Office of Information releases material concerning the department to the press and radio, and distributes the publications of the department. These publications include Farmers' Bulletins, Agriculture Leaflets and Circulars, Miscellaneous Publications, and the *Year-book of Agriculture*. From the standpoint of conservation activities the following are the important divisions in the Department:

SOIL CONSERVATION SERVICE. Propagates the use of erosion control practices in agriculture, especially through demonstration of soil-conserving measures in selected areas, supervision of certain CCC camps and assistance to Soil Conservation Districts organized under state laws; studies problem of flood control; purchases and develops submarginal land; cooperates with State Agricultural Experiment Stations in soil

conservation research; administers action phases of the Cooperative Farm Forestry Act of 1937. The Regional Office is located at Spartanburg, S. C., the State Office at Blacksburg, Va.

AGRICULTURAL ADJUSTMENT ADMINISTRATION. Encourages farm practices that protect and improve the soil, by making payments to producers adopting soil-building practices or increasing the proportion of their land devoted to soil-conserving crops. The State Executive Officer has his offices at Blacksburg, Va.

FOREST SERVICE. Administers the National Forests and their wildlife resources, conducts investigations in the entire field of forestry and wild land management, and cooperates with State and private owners of forest land.

BUREAU OF AGRICULTURAL ECONOMICS. Formulates the program for the Department relating to agricultural production, distribution, land utilization and conservation. Cooperates with State, County, and Community planning groups, and encourages farmer participation in the formulation of agricultural plans. The State representative will be found at Blacksburg, Va.

EXTENSION SERVICE. Cooperates with State Agricultural Colleges, and County Agricultural Extension Agents and Home Demonstration Agents in making research, information and aid from the Department of Agriculture available to the rural men, women and children. Distributes films and arranges exhibits at County and State Fairs. For further information on the work done in the State see Virginia Agricultural Extension Service, under the State Departments.

DEPARTMENT OF THE INTERIOR

The Division of Information issues information about the activities of the Department and distributes its publications. Important offices concerned with conservation are:

FISH AND WILDLIFE SERVICE. Supersedes the Bureau of Biological Survey, formerly in the Department of Agriculture, and the Bureau of Fisheries, which was in the Commerce Department. The Service operates the fish hatcheries and conducts studies toward improving fishery methods, establishes and administers wildlife refuges, administers the conservation laws, disseminates information, and aids in educational activities. This office also cooperates with State agencies, maintaining an Associate Biologist at Blacksburg, Va.

NATIONAL PARK SERVICE. Supervises national parks, monuments, cemeteries, and battlefield sites, and creates and organizes new national parks. Directs public educational services in natural sciences, history, and archaeology, in connection with areas under its care, and provides for museum developments in the parks. A description of the activities of this office will be found in the *Portfolio on the National Park and Monument System*, and *The Regional Review*, a monthly publication, both of which are distributed by the Regional Director for Region I, Richmond, Va.

DIRECTOR OF FORESTS. Coordinating medium between agencies within the Department which are administering forest lands.

GEOLOGICAL SURVEY. Investigates and issues reports on water supplies. Cooperates with the work of the State Geological Survey, whose activities are described under the Virginia Conservation Commission.

FEDERAL SECURITY AGENCY

CIVILIAN CONSERVATION CORPS. "The work of the CCC includes protection, restoration, regeneration, improvement, utilization, and maintenance of the natural resources of lands and waters, and the products thereof, including forests, fish, and wildlife." With special approval of the authorities the Division may supervise the execution of forestry projects on private lands. The State Office is at 737 East Main Street, Richmond, Va.

Several useful manuals have been published by or for this office. Among those in the CCC Vocational Series are—No. 7, *Conservation of Natural Resources*; No. 8, *Forestry*; and No. 14, *Soil Conservation*. Interesting bulletins in the Forestry Publications Series are—No. 3, *Stand-improvement Measures for Southern Forests*; and No. 5, *Collecting and Handling Seeds of Wild Plants*. They may be obtained from the Superintendent of Documents, Washington, D. C.

NATIONAL YOUTH ADMINISTRATION. Some of the projects of this office have included park beautification, landscaping, and soil erosion control. State headquarters are in Richmond, Va.

OFFICE OF EDUCATION. Publishes bibliographies and suggestions for teachers, useful in conservation education. (See the section on "Education" in this *Bulletin*.) In addition it directs the activities of the U. S. Film Service, and publishes a catalog of government films available for the cost of transportation.

FEDERAL WORKS AGENCY

WORKS PROJECTS ADMINISTRATION. Approximately 4% of the WPA funds have been spent on strictly conservation projects—forestation, erosion control, irrigation, and water control. In Virginia the WPA has undertaken four “Bird and Wild Flower Sanctuary” projects, at Petersburg, Hopewell, Norfolk, and Charlottesville, and prepared herbariums for the use of schools and the general public. State headquarters are at 11 South Twelfth Street, Richmond, Va.

MIGRATORY BIRD CONSERVATION COMMISSION. Approves purchase of land for use as bird refuges.

NATIONAL RESOURCES PLANNING BOARD. Prepares advisory reports, programs, and plans on the development, use and conservation of national resources.

TENNESSEE VALLEY AUTHORITY. A corporation among whose duties is the administration of the entire Tennessee River System, and the sponsoring of a program of water control and conservation in the water shed of the Tennessee Valley. Southwestern Virginia, including the regions drained by the Powell, Clinch and Halston Rivers, is included in this area. See also the work of the Virginia Agricultural Extension Service under State organizations.

STATE DEPARTMENTS

VIRGINIA CONSERVATION COMMISSION

This Department was organized to consolidate most of the work of conservation in the State. It cooperates with the Federal government, State Planning Board, the State Chamber of Commerce, and other groups in directing research into state problems. The Commission has published *Laws of Virginia Relating to State Commission on Conservation and Development*, 1935. The name has since been changed to its present form. Six of the Divisions of the Department are:

FOREST SERVICE, Charlottesville, Va.

Work includes forest protection against fires, promotion of good forestry practices, administration of State forest reserves. The office cooperates with the U. S. Forest Service, and distributes the bulletins of the Department of Agriculture. Staff members will give addresses

before clubs and the Department will loan slides and films. Publications of this office are: *Common Forest Trees of Virginia*, 1938; *Forest Fire Laws of Virginia*, 1938; *Trees for Reforestation in Virginia*, 1939; and reports on the forests of particular counties of Virginia (complete list available).

GEOLOGICAL SURVEY, Charlottesville, Va.

Cooperates with the U. S. Geological Survey. Publishes bulletins on the mineral and underground water resources of the State (list available), also geologic and topographic maps of the State, and of separate counties.

WATER RESOURCES AND POWER, Charlottesville, Va.

Cooperates with the U. S. Geological Survey. Publishes: *Springs of Virginia*, 1930; *Water Resources of Virginia*, 1927; and other technical bulletins which are distributed free.

PUBLICITY AND ADVERTISING, Richmond, Va.

Members of the staff give lectures and motion picture exhibitions, and the office distributes publicity on the State, and the Conservation Commission. This Division has published the booklet, *Virginia State Parks*.

PARKS, Richmond, Va.

Establishes and administers the State parks, and cooperates with the National Park Service and the CCC in creating and administering national park areas. Offices are in Richmond.

HISTORY AND ARCHAEOLOGY, Richmond, Va.

Interested in the conservation of historical material.

COMMISSION OF GAME AND INLAND FISHERIES, Richmond, Va.

Stocks streams and forest areas and releases game. Cooperates with the U. S. Fish and Wildlife Service and the U. S. Forest Service. Publishes: *Virginia Fishing Streams and Ponds*, 1935; *Virginia Game, Inland Fish and Dog Laws*, 1939; and is co-sponsor of the magazine, *Virginia Wildlife*.

COMMISSION OF FISHERIES, Newport News, Va.

Supervises the sea food interests and industries of the State.

DEPARTMENT OF AGRICULTURE AND IMMIGRATION,
Richmond, Va.

Cooperates with the Wildlife Federation in collecting specimens of plants and flowers. Urges conservation through talks before clubs and over the radio.

DEPARTMENT OF HIGHWAYS, Richmond, Va.

The Landscape Engineer of the Department makes recommendations concerning the conservation of existing vegetation—trees, shrubs, and ground covers, and the control of erosion along the highways. The Department cooperates with the Associated Clubs of Virginia for Roadside Development, and with the various Federal agencies—WPA, Soil Conservation Service, National Park Service, etc.—in the preservation and development of the roadsides, and in the creation of waysides and recreation areas.

DEPARTMENT OF EDUCATION, Richmond, Va.

Cooperates with the Garden Club of Virginia in observing Conservation Week and distributing a booklet on the subject. Important aspects of conservation education are emphasized in the *Virginia Course of Study*.

VIRGINIA STATE PLANNING BOARD, 5 South 10th Street,
Richmond, Va.

Created in 1938, the Board has since engaged in surveys of the resources of the State, and an extensive mapping program. It aids in the establishment of local planning boards, and publishes reports on the results of its research, as the *Land Use* and *Agriculture* studies.

VIRGINIA AGRICULTURAL EXTENSION DIVISION, Virginia
Polytechnic Institute, Blacksburg, Va.

All extension work in Virginia is centralized at V. P. I., and the Extension Division cooperates with the various branches of the Federal government in assisting the farm people. Special projects are: Farm Demonstration Work through County Agents, Home Demonstration Work through County Women Agents, Boys' and Girls' Club Work, Farmers' Extension Schools, and giving aid to farmers on problems relating to agronomy, plant pathology, farm forestry, and community organization. In cooperation with the Virginia Federation of Garden Clubs the Division offers the Garden Lovers' Short Course, held during

the summer. Monthly publications are: *The Extension Division News*, *The Virginia 4-H Club Letter*, and *Virginia Farm Economics*. Bulletins are issued on particular subjects.

VIRGINIA COOPERATIVE WILDLIFE RESEARCH UNIT,
Blacksburg, Va.

Sponsored and supported by V. P. I., American Wildlife Institute, Bureau of Biological Survey, and Virginia Commission of Game and Inland Fisheries. Conducts research in the problems of wildlife restoration and conservation.

NON-GOVERNMENTAL AGENCIES AND ORGANIZATIONS

AMERICAN FORESTRY ASSOCIATION 919 Seventeenth Street, N. W.,
Washington, D. C.

"An independent, non-political, non-commercial organization for all citizens interested in conservation. In addition to publishing two magazines, *American Forests* and *Conservation*, the Association carries on educational projects in various fields including forest fire prevention, reforestation, protection and propagation of fish and wildlife, upstream flood control, prevention of soil erosion, preservation of wilderness areas, establishment of national forests and parks, development of forestry by private endeavor, and the teaching of conservation in the schools of the country."

AMERICAN NATURE ASSOCIATION 1214 Sixteenth Street, N. W.,
Washington, D. C.

"A scientific and educational organization founded for the purpose of stimulating interest in nature and the out-of-doors, fostering nature study in our public schools, working for the conservation of natural resources and protection of wildlife." Publishes *Nature Magazine*, *Nature Almanac*, pictures of birds, and aids for teachers.

AMERICAN PLANNING AND CIVIC ASSOCIATION 901 Union Trust
Building, Washington, D. C.

"Promotes public understanding and support of national, regional, state and local planning for the best use of urban and rural land, water and other natural resources; the advancing of higher ideals of civic life and beauty in America; the safeguarding and developing for the

largest good to the people, of natural wonders and scenic possessions and of national and other parks and recreational facilities."

AMERICAN WILDLIFE INSTITUTE Investment Building, Washington, D. C.

"An organization for the restoration of American wildlife." Sponsors the annual North American Wildlife Conference, and publishes its *Transactions*. Also publishes the magazine *American Wildlife* and has a great variety of printed material for distribution.

EDUCATION CONSERVATION COMMITTEE 28-12 Forty-third Street, Long Island City, N. Y.

"A national, professional, public service organization consisting of school and college officials, professors, educators, teachers, students, scientists, conservationists, state government conservation agencies, and associated groups. Its purposes are to promote the protection of forests, plants, soils, minerals and waters, and to preserve health, human life, wildlife and scenic beauty." The Society particularly emphasizes the importance of conservation education in the schools and publishes bulletins on the progress of this instruction.

EMERGENCY CONSERVATION COMMITTEE 734 Lexington Avenue, New York City

"Actively campaigning for the protection of virgin forests, birds of prey, bald eagles, fish-eating birds, waterfowl, and animals in danger of extinction." Publishes: *Conservation Series*, *Teaching Units* and miscellaneous bulletins on conservation.

FRIENDS OF THE LAND 710 Denrike Building, Washington, D. C.

A new "nonpartisan, nonprofit, society for conservation of soil, rain and man." Will publish a magazine, *The Land*, first issue to be September, 1940, "dealing with conservation in relation to the land and the problems of people who live on the land." Russell Lord will be the editor.

GARDEN CLUB OF AMERICA 598 Madison Avenue, New York City

Two committees, the Conservation Committee and the Billboard and Roadside Committee, are especially interested in this subject. Useful leaflets are distributed (sample sets free, a slight charge for quantity orders). The Conservation Committee has also published the very helpful *Conservation Guide*, listed elsewhere in this booklet, and *The Hyde Chart of Wild Flowers Needing Protection*.

GENERAL FEDERATION OF WOMEN'S CLUBS 1734 N Street, N. W.,
Washington, D. C.

The Conservation of Natural Resources Committee urges that there be an active Chairman of Conservation in every state, a study in each local club of the problems of conservation and the Federal, State and local government agencies and departments actively working in the field, and club support for conservation education in the schools and all local conservation projects. In connection with the U. S. Forest Service the Federation has published a series of bulletins for distribution, two of which are *What Do Forest Playgrounds Mean*, and *Who Burns Our Forests*.

IZAACK WALTON LEAGUE OF AMERICA 222 North Bank Drive,
Chicago, Ill.

"Defenders of woods, waters and wildlife." The League has made a special effort to interest the boys and girls, and has sponsored Junior Walton chapters. There is a Virginia branch of this organization.

THE NATIONAL ASSOCIATION OF AUDUBON SOCIETIES 1775 Broad-
way, New York City

Aims: "To arouse public appreciation of the beauty and economic value of wildlife, and to stimulate action to preserve and protect it. To preserve an adequate breeding stock of all native wildlife, for the enjoyment and material benefit of mankind. To preserve environmental conditions of ample food, water, and cover, on the maintenance of which all wildlife is dependent for survival. To fix guardianship responsibility on Federal, State, or competent private agencies, to safeguard all species threatened with extinction." Publishes: *Bird-Lore*, *Bird Study for Schools* (leaflets), *Educational Leaflets*, and aids for nature clubs.

NATIONAL CONFERENCE ON STATE PARKS 901 Union Trust Build-
ing, Washington, D. C.

"The object of the Conference is to inform the public through a central clearing house of information, publications, conferences, courses of training in schools and colleges, and by other educational means, of the value of state parks, historic sites, forests and preserves, suitable for recreation, study of natural history and science, preservation of wildlife and conservation of natural scenery, by development within the States of well-balanced state park systems; to the end that

every citizen of the United States shall have easy access to state recreation areas and appreciate their value as a recognized form of land-use."

NATIONAL COUNCIL OF STATE GARDEN CLUBS, INC. 30 Rockefeller Plaza, New York City

The objective of the Conservation Committee is "conservation education for youth and adult." It will aid associated groups in planning programs and raising money for local educational projects. The Committee has available a group of slides on conservation. The Council publishes a *Bulletin* eight times yearly. The Garden Club of Virginia and the Virginia Federation of Garden Clubs are affiliated groups.

NATIONAL ROADSIDE COUNCIL 119 East 19th Street, New York City

"An organization founded for the development of roadside beauty." Cooperates with State and County Roadside Councils, and publishes the *Roadside Bulletin*.

NATIONAL WILDLIFE FEDERATION Investment Building, Washington, D. C.

"Believing that the natural resources of this Continent are economic, social, recreational and esthetic assets which should be restored and perpetuated for our posterity, and realizing that this can be achieved only through an aroused and enlightened opinion among the people of this nation, we dedicate this Federation to these ends." Publishes the *National Wildlife Federation Bulletin*. The Virginia Wildlife Federation is an affiliated group.

VIRGINIA WILDLIFE FEDERATION Blacksburg, Virginia

This organization works for a statewide educational program, distributes material to the schools, cooperates with children and young people's organizations, furnishes programs and speakers for conservation meetings, holds annual summer meetings in Blacksburg, which the public may attend, works with State and National governmental agencies, and sponsors legislation designed to promote conservation. Publishes *Virginia Wildlife*, and distributes leaflets, such as plans for bird houses.

WILD FLOWER PRESERVATION SOCIETY, INC. 3740 Oliver Street, N. W., Washington, D. C.

A non-profit educational society whose aims are: (1) establish wild flower, or general wildlife preserves, and nature trails, (2) cultivate

attractive and rare native plants, (3) develop appreciation of nature and conservation, (4) aid those wishing to know and grow wild flowers. To accomplish these aims the Society sends lectures, and distributes posters, exhibits, inexpensive leaflets, and pictures of wild flowers. Publishes a quarterly magazine, *Wild Flower*.

The School of Rural Social Economics of the University of Virginia and the Virginia State Chamber of Commerce, though not interested primarily in conservation, have, in their publications, assisted the cause of conservation in the State. The University of Virginia *News Letter*, published by the School of Rural Social Economics, will be sent free to members of the organizations composing the Virginia State Conservation Council. Members of the Council will be especially interested in four back numbers—the June 15, 1937 and November 15, 1939 issues, dealing with Virginia forests, the April 15, 1938 issue, "Land Use in Virginia," and the June 1, 1938 issue, describing the Virginia Conservation Commission. A limited number of these is available. The School has also published a series of economic and social surveys of Virginia counties.

The Committee on Conservation and Land Use, of the Virginia State Chamber of Commerce, is mainly interested in reforestation. However, its magazine, *The Commonwealth*, has contained very useful articles on the whole subject of conservation. A series by Mr. Barrington King, of the Regional Office of the Soil Conservation Service, appeared in five numbers between June, 1937 and November, 1938. There have been several articles on plant life, birds, and forests, and an excellently illustrated series on the parks, recreation areas, and wildlife sanctuaries. Back files of the magazine are available at ten cents a copy.

VIRGINIA CONSERVATION COUNCIL MEMBERS*

American Legion Auxiliary
Associated Clubs of Virginia
Carry Nature Sanctuary of Sweet Briar College
Country Women of the World
Daughters of the American Revolution
Garden Club of Virginia
Hanover Garden Club
National Council of Jewish Women
National Farm and Garden Association
Norfolk Federation of Garden Clubs
Parent-Teachers Association
Richmond Federation of Garden Clubs
Virginia Federation of Business and Professional Women's Clubs
Virginia Federation of Garden Clubs
Virginia Federation of Home Demonstration Clubs
Virginia Federation of Women's Clubs
Virginia State Division, American Association of Univeristy Women
Virginia Wildlife Federation

*This list includes the sixteen charter organizations.

CONSERVATION CHAIRMEN
OF MEMBER ORGANIZATIONS

Name

Address

